

INCOLOY825/UNS N08825/Alloy825/2.4858

Incoloy 825 is a nickel-iron-chromium alloy with additions of molybdenum and copper. This nickel steel alloy's chemical composition is designed to provide exceptional resistance to many corrosive environments. It is similar to alloy 800 but has improved resistance to aqueous corrosion. It has excellent resistance to both reducing and oxidizing acids, to stress-corrosion cracking, and to localized attack such as pitting and crevice corrosion. Alloy 825 is especially resistant to sulfuric and phosphoric acids. This nickel steel alloy is used for chemical processing, pollution-control equipment, oil and gas well piping, nuclear fuel reprocessing, acid production, and pickling equipment.

In what forms is Incoloy 825 available?

- Sheet
- Plate
- Bar
- Pipe & Tube (welded & seamless)
- Fittings (i.e. flanges, slip-ons, blinds, weld-necks, lapjoints, long welding necks, socket welds, elbows, tees, stub-ends, returns, caps, crosses, reducers, and pipe nipples)
- Wire

Alloy 825 (UNS N08825) Chemical Composition, %

Ni	Fe	Cr	Mb	Cu	Ti	C	Mn	S	Si	Al
38.0-46.0	22.0 min	19.5-23.5	2.5-3.5	1.5-3.0	.6-1.2	0.05 max	1.0 max	0.03 max	0.5 max	0.2 max

ASTM Specifications

Pipe Smls	Pipe Welded	Tube Smls	Tube Welded	Sheet/Plate	Bar	Forging	Fitting
B423				B424	B425	B564	B366, B564

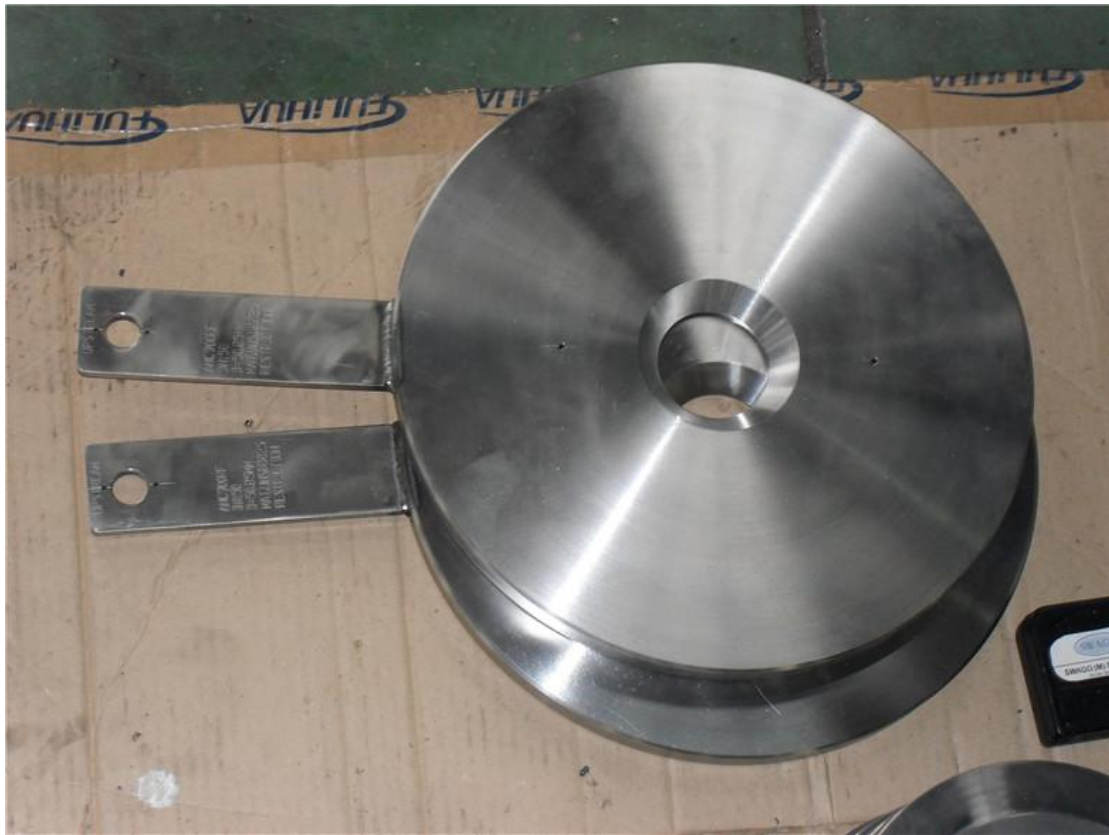
General Mechanical Properties

Tensile (ksi)	.2% Yield (ksi)
85	30-35

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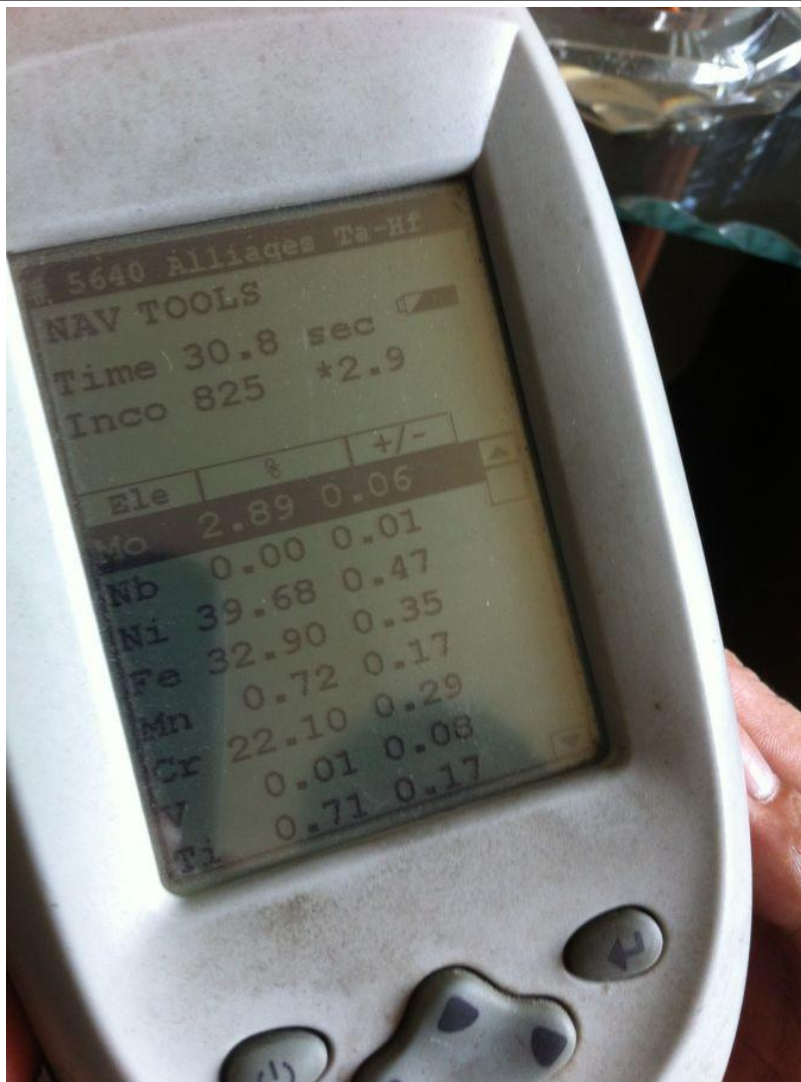
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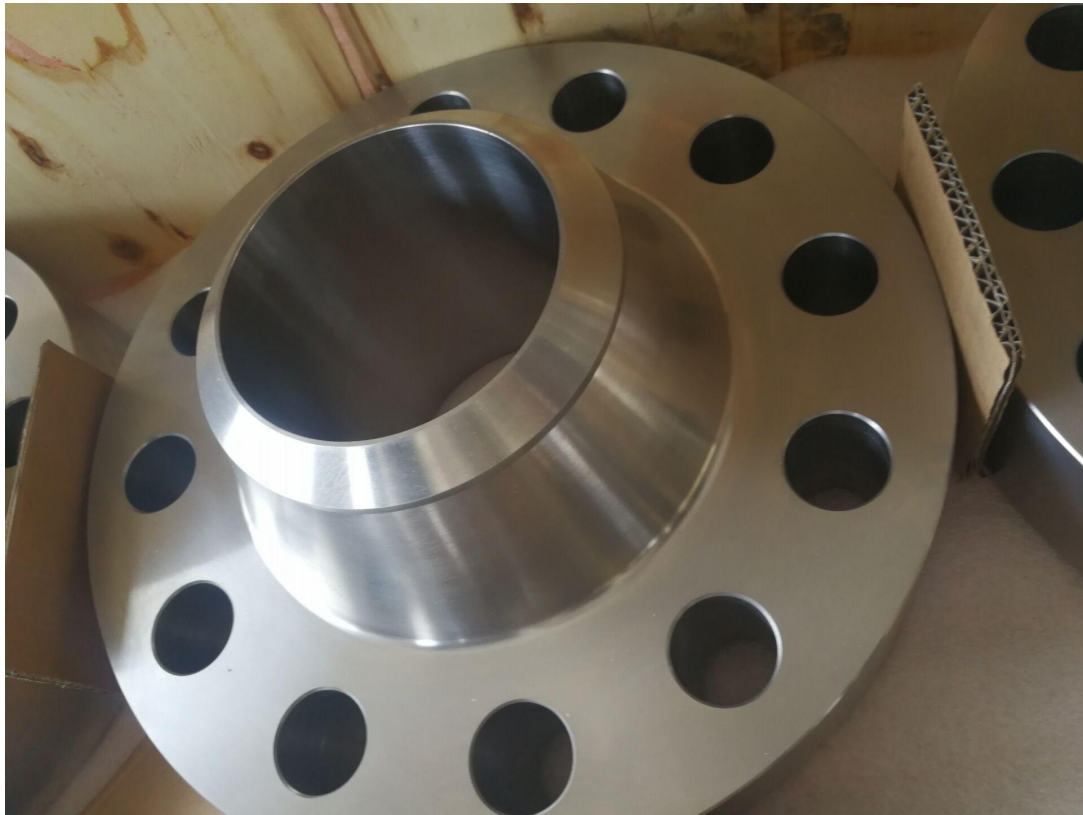
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